

## ABSTRACT OF THE DISCLOSURE

Solid pulverulent reactive composition and process for the purification of a gas contaminated by, for instance, hydrogen chloride, sulfur or nitrogen oxides, the said composition comprising sodium bicarbonate and a caking inhibitor for sodium bicarbonate comprising lignite coke and/or a magnesium compound comprising magnesium (hydr)oxide. Process for the purification of a gas, according to which a reactive composition comprising sodium bicarbonate which is substantially devoid of silica is introduced into the gas and the gas is subjected to removal of dust.

[Figure 2.]

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